

Applic. No. 10/765,586
Amdt. dated July 30, 2007
Reply to Office action of June 4, 2007

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Claim Amendments

This listing of the claims will replace all prior versions,
and listings, of claims in the application:

Claim 1 (currently amended): A sheet feeder for the
synchronized feeding of sheets to a sheet processing machine
having a machine drive, the sheet feeder comprising:

drive assemblies for driving the sheet feeder and a drive
train connecting said drive assemblies to the machine drive of
the sheet processing machine;

a clutch selectively switchable at a determined angular
position thereof into said drive train between said drive
assemblies of the sheet feeder and the machine drive of the
sheet processing machine; and

a switch-on torque limiter being a pretensioned spring element
connected in said drive train, said switch-on torque limiter
including four stationary and symmetrically disposed
deflection rollers and two displaceable deflection rollers,
and said switch-on torque limiter configured to activate upon
a switching of said clutch into said drive train.

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Claim 2 (original): The sheet feeder according to claim 1, wherein said switch-on torque limiter is disposed between the machine drive of the sheet processing machine and said clutch.

Claim 3 (original): The sheet feeder according to claim 1, wherein said switch-on torque limiter is disposed between said clutch and said drive assemblies of the sheet feeder.

Claim 4 (cancelled).

Claim 5 (currently amended): The sheet feeder according to claim ~~[[4]]~~ 1, wherein said switch-on torque limiter includes an endless belt partly wrapped around said four stationary deflection rollers and around said two displaceable deflection rollers.

Claim 6 (currently amended): The sheet feeder according to claim ~~[[4]]~~ 1, wherein said switch-on torque limiter includes a carriage carrying said displaceable deflection rollers, and a second spring element holding said carriage in a pretensioned state in an operating position.

Claim 7 (currently amended): The sheet feeder according to claim ~~[[4]]~~ 1, wherein said pretensioned spring element is a first spring element configured to absorb a torque surge

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introduced when the machine drive is first connected to said drive assemblies of the sheet feeder, and a second spring element is configured to cushion a recoil movement of said switch-on torque limiter.

Claim 8 (previously presented): The sheet feeder according to claim 7, wherein said first spring element and said second spring element are disposed coaxially with said first spring element disposed inside said second spring element.

Claim 9 (original): The sheet feeder according to claim 6, which comprises an actuating motor operatively associated with said carriage for adjusting said carriage specifically to adjust a phase between the machine drive and said drive assemblies of the sheet feeder.

Claim 10 (previously presented): The sheet feeder according to claim 9, wherein the machine drive includes a pinion and said drive train includes a pulley wheel, and wherein an actuating motor is operatively associated with said carriage for adjusting a phase between said pinion and said pulley wheel.